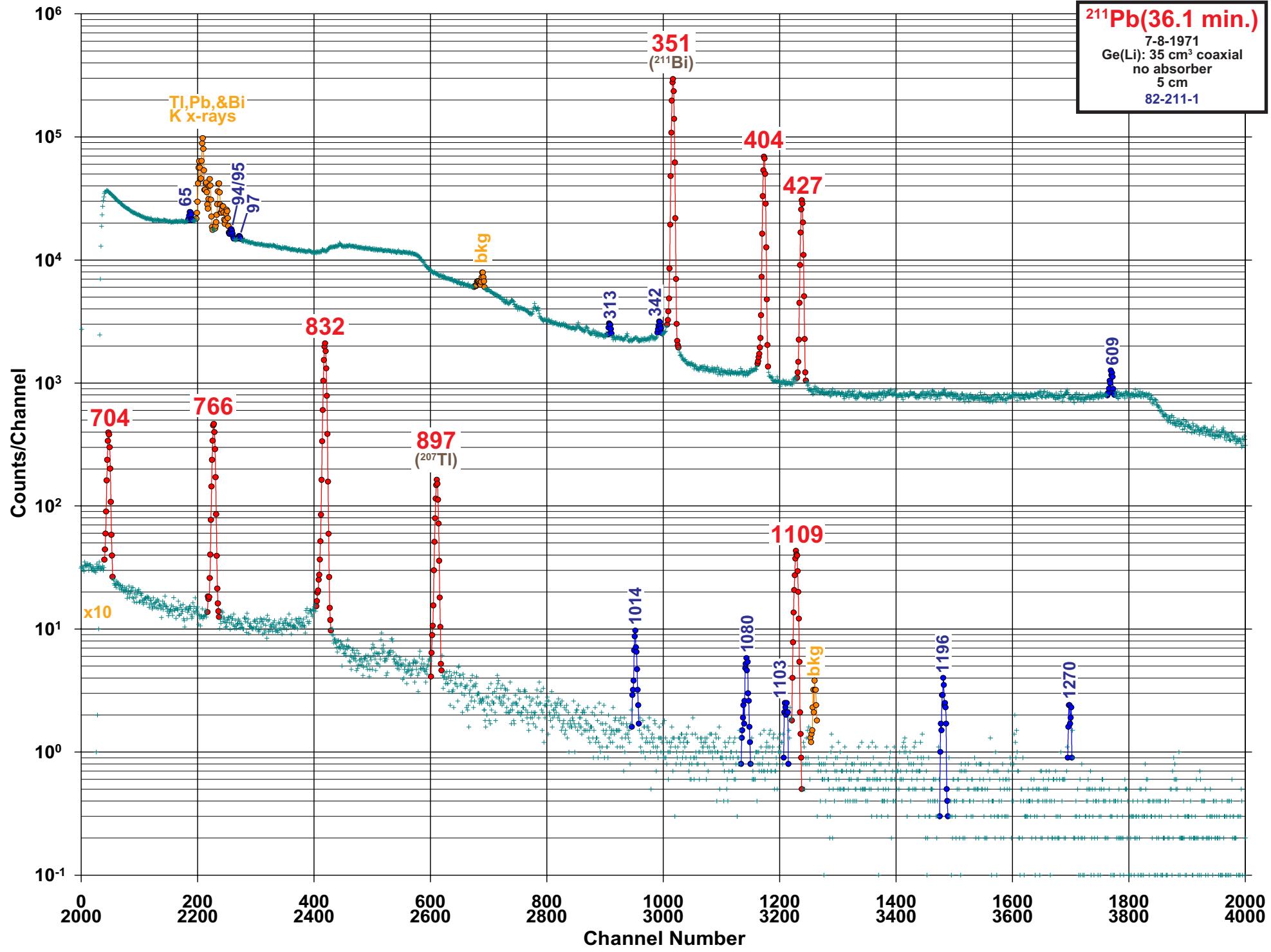
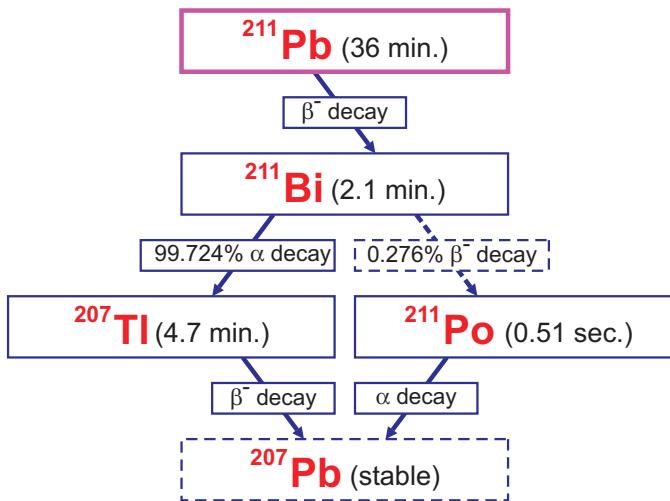


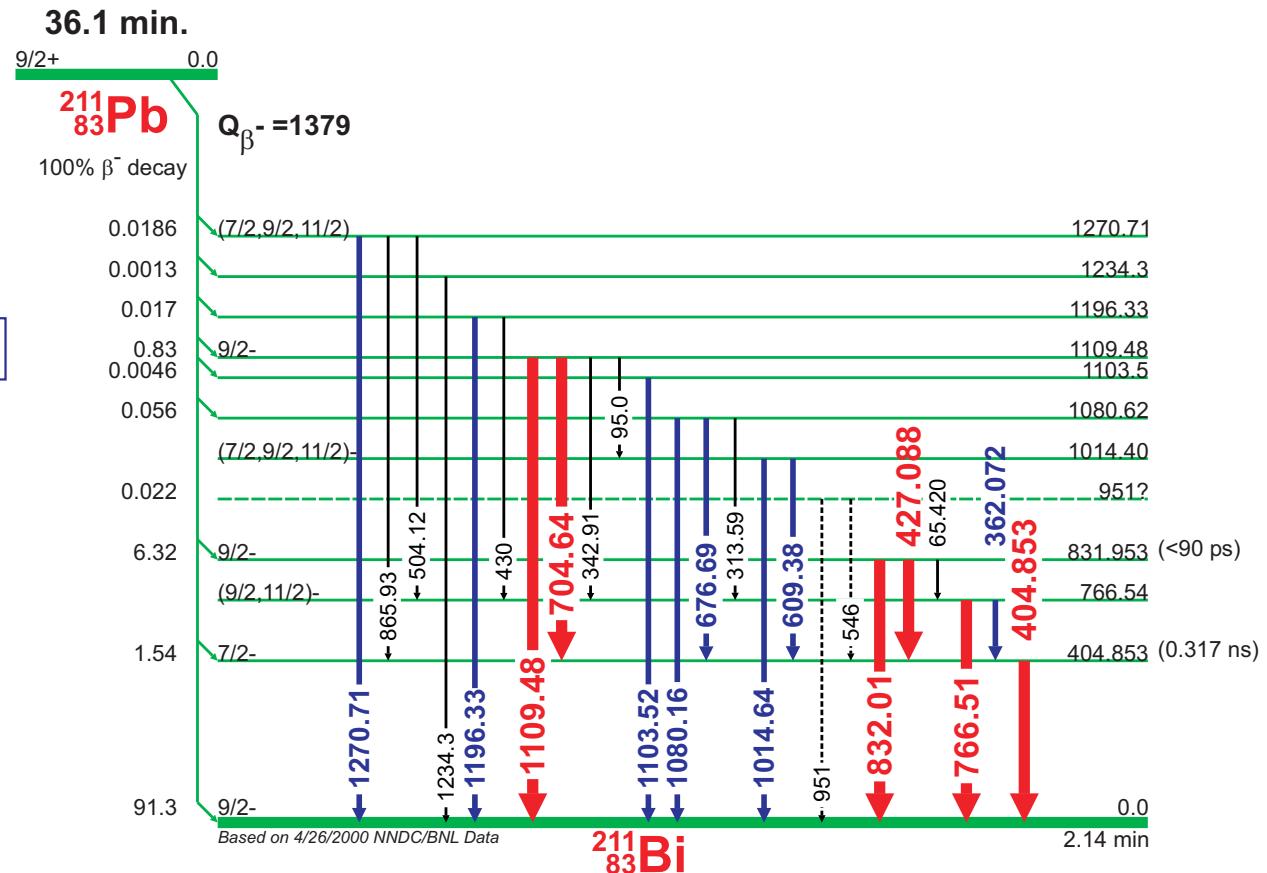
^{211}Pb (36.1 min.)
 7-8-1971
 Ge(Li): 35 cm^3 coaxial
 no absorber
 5 cm
 82-211-1



^{211}Pb Decay Chain



^{211}Pb (36.1 min.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **^{211}Pb** $E_\gamma \sigma E_\gamma I_\gamma \sigma I_\gamma$ Levels- from ENSDF Database as of April 26, 2000

Half Life: 36.1(2) min

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
65.420	0.014	0.077	0.005	831.953	β^-
81.0	0.2	0.045	0.012		β^-
83.8	0.1	0.058	0.009		β^-
88.2	0.2	0.017	0.004		β^-
94.3	0.3	0.012	0.003		β^-
95.0	0.2	0.018	0.003	1,109.48	β^-
97.3	0.2	0.012	0.001		β^-
244		0.04	0.01		β^-
313.59	0.09	0.031	0.004	1,080.62	β^-
342.91	0.04	0.035	0.005	1,109.48	β^-
362.072	0.017	0.043	0.003	766.54	β^-
404.853	0.010	3.78	0.05	404.853	β^-
427.088	0.010	1.76	0.04	831.953	β^-
430	1	0.006	0.003	1,196.33	β^-
478.0	0.4	0.013	0.003		β^-
479.6	0.2	0.005	0.001		β^-
481.1	0.4	0.026	0.005		β^-
481.92	0.12	0.010	0.001		β^-
491.82	0.12	0.0041	0.0008		β^-
494.2	0.3	0.0017	0.0006		β^-

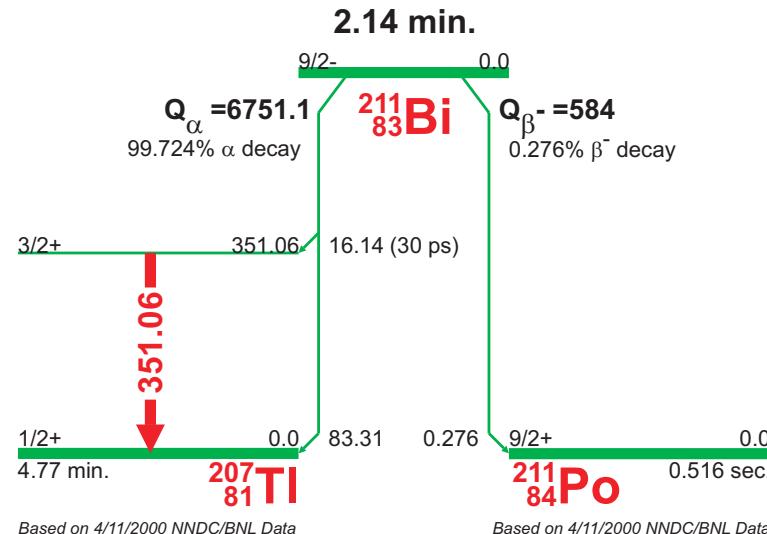
① These I_γ are per 100 Decays of ^{211}Pb .

② For total uncertainty add systematic component of 0.85% in quadrature, based on the normalization factor 0.1291(11)

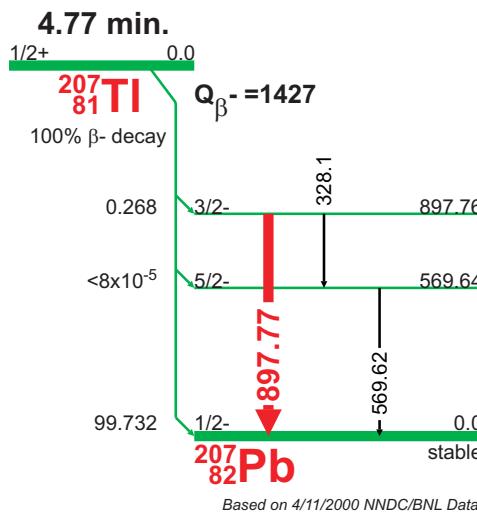
E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
500.4	0.5	0.012	0.003		β^-
502.0	0.2	0.0036	0.0008		β^-
504.12	0.12	0.0058	0.0008	1,270.71	β^-
546				951	β^-
609.38	0.04	0.043	0.006	1,014.40	β^-
676.69	0.07	0.013	0.004	1,080.62	β^-
704.64	0.03	0.462	0.010	1,109.48	β^-
766.51	0.03	0.617	0.015	766.54	β^-
832.01	0.03	3.52	0.05	831.953	β^-
865.93	0.14	0.0059	0.0004	1,270.71	β^-
951		0.022	0.013	951	β^-
1,014.64	0.05	0.0173	0.0005	1,014.40	β^-
1,080.16	0.06	0.0123	0.0006	1,080.62	β^-
1,090.5	0.5	0.0026	0.0006		β^-
1,103.52	0.20	0.0046	0.0006	1,103.5	β^-
1,109.48	0.05	0.115	0.004	1,109.48	β^-
1,196.33	0.05	0.0102	0.0004	1,196.33	β^-
1,234.3	0.4	0.0013	0.0003	1,234.3	β^-
1,270.71	0.08	0.0068	0.0005	1,270.71	β^-



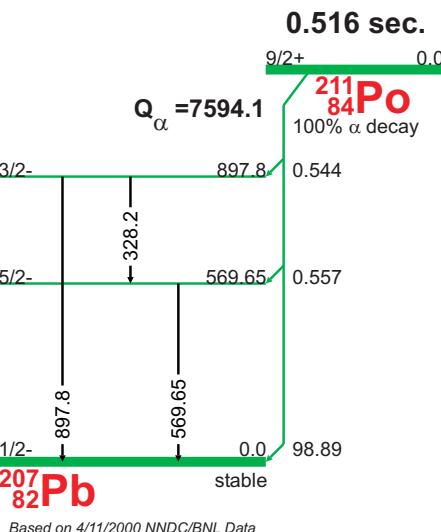
^{211}Bi (2.14 min.) Decay Scheme



^{207}TI (4.77 min.) Decay Scheme



$^{211}\text{Po}(0.516 \text{ sec.})$ Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{211}Bi

Half Life: 2.14(2) min.

E_{γ} (keV)	σE_{γ}	$\frac{\textcircled{1}}{\textcircled{1}} I_{\gamma}$	$\frac{\textcircled{2}}{\textcircled{2}} \sigma I_{\gamma}$	Level
351.06	0.04	12.91	0.11	351.06 α

 $E_{\gamma}, \sigma E_{\gamma}, I_{\gamma}, \sigma I_{\gamma}$ Levels from ENSDF Database as of April 26, 2000① These I_{γ} are per 100 Decays of ^{211}Bi .

② For total uncertainty add 0.004% systematic component in quadrature, based on the normalization factor 0.99724(4)

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{207}TI

Half Life: 4.77(2) min.

E_{γ} (keV)	σE_{γ}	$\frac{\textcircled{1}}{\textcircled{1}} I_{\gamma}$	$\frac{\textcircled{2}}{\textcircled{2}} \sigma I_{\gamma}$	Level
328.1	0.12	0.0014	0.0014	897.76 β^-
569.62	0.12	0.00159	0.00020	569.64 β^-
897.77	0.12	0.260	0.009	897.76 β^-

 $E_{\gamma}, \sigma E_{\gamma}, I_{\gamma}, \sigma I_{\gamma}$ Levels from ENSDF Database as of April 26, 2000① These I_{γ} are per 100 Decays of ^{207}TI .For ^{211}Bi parent, multiply these values by 99.726%

② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{211}Po

Half Life: 0.516(3) sec

E_{γ} (keV)	σE_{γ}	$\frac{\textcircled{1}}{\textcircled{1}} I_{\gamma}$	$\frac{\textcircled{2}}{\textcircled{2}} \sigma I_{\gamma}$	Level
328.2	0.2	0.0033	0.0011	897.8 α
569.65	0.10	0.545		569.65 α
897.8	0.1	0.561	0.011	897.8 α

 $E_{\gamma}, \sigma E_{\gamma}, I_{\gamma}, \sigma I_{\gamma}$ Levels from ENSDF Database as of April 26, 2000① These I_{γ} are per 100 Decays of ^{211}Po .For ^{211}Bi parent, multiply these values by 0.276%

② For total uncertainty add 3.8% systematic component in quadrature, based on the normalization factor 0.00545(21)

